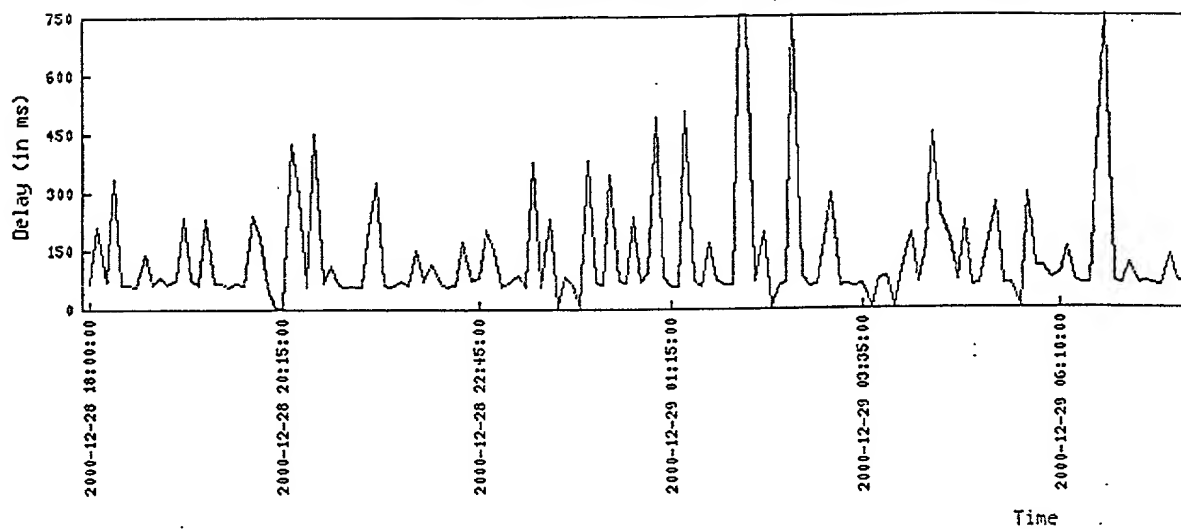
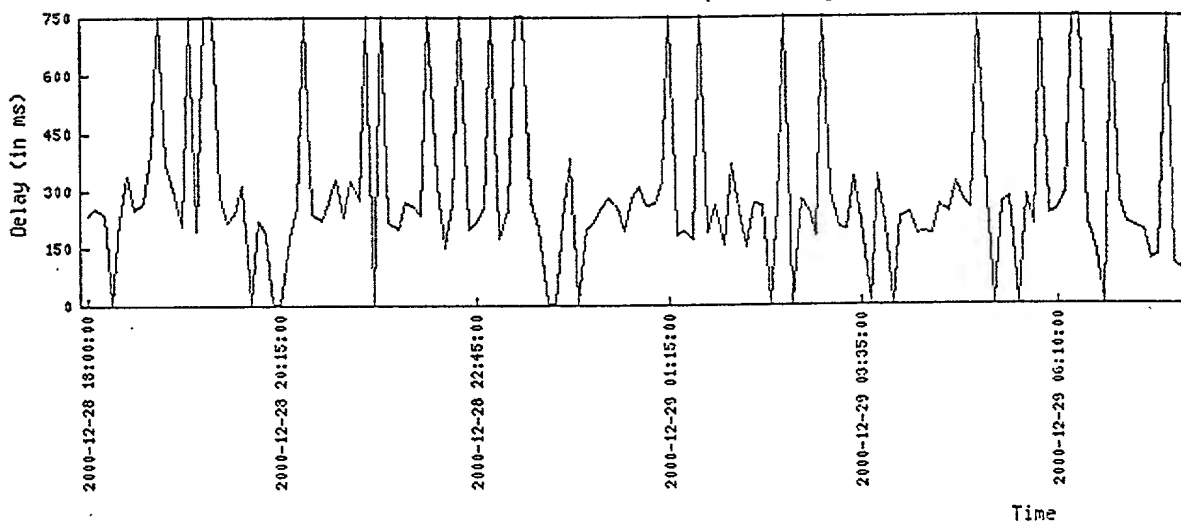


WBR to Head-end Round-trip Latency (1 ping)



WBR to Head-end Round-trip Latency (10 ping average)



Signal (dB) to Noise (dB) Ratio

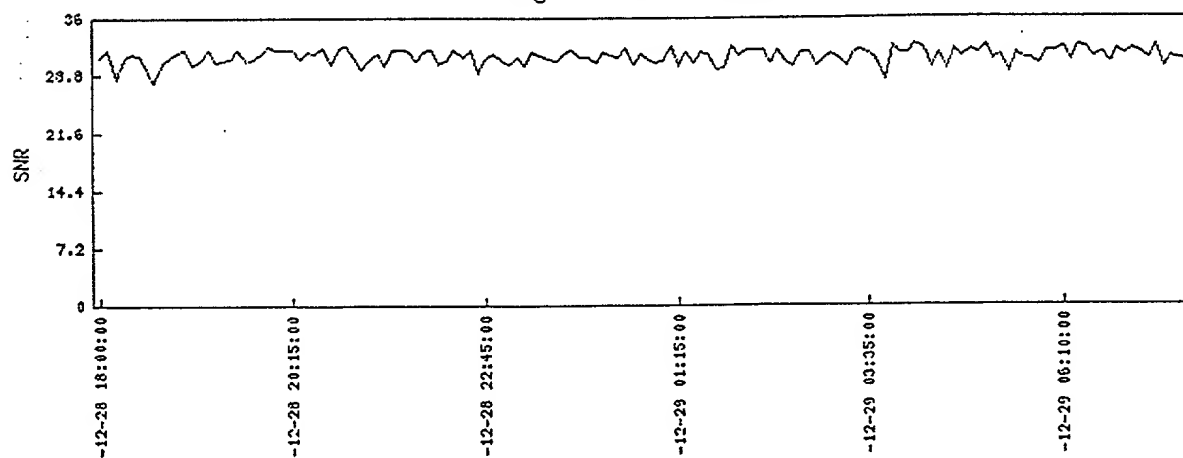


FIG. 46

Peak Time: 2000-12-28 12:25:00 CST

Peak Active Modems	Sampled Modems	Activity Ratio
905	7115	12.72%

Modem Counts		
Contention	Polling	Dedicated
0	847	58

Off Peak Time: 2000-12-28 06:00:00 CST

Off Peak Active Modems	Sampled Modems	Activity Ratio
152	7115	2.14%

Modem Counts		
Contention	Polling	Dedicated
0	98	54

Individual Peak Modem Counts	
Contention 2000-12-28 12:55:00 CST	Polling 2000-12-28 12:25:00 CST
10	847

Dedicated 2000-12-28 05:45:00 CST	
88	

Avg. Time Spent Per User		
In Contention	In Polling	In Dedicated
0.03 secs	0.71 secs	1.48 secs

FTP Rates At Off Peak 2000-12-28 06:00:00 CST		FTP Rates At Peak 2000-12-28 12:25:00 CST	
Downstream	Upstream	Downstream	Upstream
3.54 Mbps	85.83 Kbps	2.21 Mbps	32.02 Kbps

FIG. 47a

Peak FTP Rate Downstream
2000-12-28 01:40:00
6.03 Mbps

Peak FTP Rate Upstream
2000-12-28 07:20:00
217.87 Kbps

2000-12-28 00:00:00 CST thru 2000-12-28 23:59:59 CST

Average FTP Rate Midnight-6pm (off peak)		Average FTP Rate 6pm-Midnight (peak)	
Downstream	Upstream	Downstream	Upstream
2.69 Mbps	51.31 Kbps	2.01 Mbps	38.27 Kbps

2000-12-28 00:00:00 CST thru 2000-12-28 23:59:59 CST

Average HTTP Rate Midnight-6pm (off peak)	Average HTTP Rate 6pm-Midnight (peak)
470.34 Kbps	384.46 Kbps

FEC Corrections	FEC Uncorrectables
32.55 : 1000	1.53 %

Available
Channels

230

Max Functioning
Channels

230

Min Functioning
Channels

68

Avg Functioning
Channels

226.44

Max Non-Functioning
Channels

162

Min Non-Functioning
Channels

0

Avg Non-Functioning
Channels

3.56

Signal to Noise
Ratio

24.93 : 1

Requested to Scheduled
Modem Calibration Ratio

0.65 : 1

Downstream to Upstream
Bitrate Ratio
(All MEASUREMENTS ARE PER USER)

02:00:00 - 02:15:00 CST	10:00:00 - 10:15:00 CST	14:00:00 - 14:15:00 CST	22:00:00 - 22:15:00 CST
12-28 4.01 : 1	4.46 : 1	10.68 : 1	4.56 : 1

FIG. 47b